

AMENDMENTS TO THE CLAIMS

Claim 1-32 (cancelled).

33 (New): An asphalt surface repair apparatus comprising:
a single vehicle road repair system having a front and a rear portion, that includes on the vehicle:
a heating gas source;
at least one heater mounted to the vehicle for pivotal articulation relative to an adjoining structure of the vehicle for moving the at least one heater towards and away from a surface to be repaired;
a hot new asphalt source;
a rejuvenating liquid source located forward of the at least one heater; and
a rejuvenating liquid dispenser.

34 (New): The apparatus of claim 33, wherein the at least one heater is mounted to the rear portion of the vehicle.

35 (New): The apparatus of claim 33, wherein the at least one heater includes a heater blanket.

36 (New): The apparatus of claim 35, wherein the heater blanket is made of an electrical resistance steel that includes chromium and aluminum.

37 (New): The apparatus of claim 33, wherein the rejuvenating liquid is an emulsion.

38 (New): The apparatus of claim 37, wherein the rejuvenating liquid emulsion is present in an amount from 30 to 80 parts by weight in total of a heavy paraffin distillation solvent extract, from 10 to 60 parts by weight of water, and from 1 to 5 parts by weight of the emulsifier.

39 (New): The apparatus of claim 37, wherein the rejuvenating liquid emulsion is present in an amount from 60 to 65 parts by weight in total of a heavy paraffin distillation solvent extract, from 30 to 35 parts by weight of water, and from 1 to 5 parts by weight of the emulsifier.

40 (New): The apparatus of claim 33, further comprising:

- a controller for controlling an on/off operation of the at least one heater;
- and

- a sensor for sensing the position of the at least one heater with respect to the surface to be repaired;

- wherein the controller turns on the at least one heater when the sensor senses the at least one heater is generally approximate to the surface to be repaired; and

- wherein the controller turns off the at least one heater when the sensor senses the at least one heater is not generally approximate to the surface to be repaired.

41 (New): The apparatus of claim 33, further comprising a storage compartment for storing tools and equipment.

42 (New): An asphalt surface repair apparatus comprising:

- a single vehicle road repair system having a front and a rear portion, that includes on the vehicle:

- a heating gas source;

- at least one infrared heater mounted to the vehicle for pivotal articulation relative to an adjoining structure of the vehicle for moving the at least one heater towards and away from a surface to be repaired, wherein the at least one infrared heater includes a heating blanket;

- a hot new asphalt source;

a rejuvenating liquid source located forward of the at least one heater; and

a lance and reel located forward of the at least one heater for dispensing the rejuvenating liquid.

43 (New): The apparatus of claim 42, wherein the at least one infrared heater is mounted to the rear portion of the vehicle.

44 (New): The apparatus of claim 42, wherein the heater blanket is made of an electrical resistance steel that includes chromium and aluminum.

45 (New): The apparatus of claim 42, further comprising:

a controller for controlling an on/off operation of the at least one heater; and

a sensor for sensing the position of the at least one heater with respect to the surface to be repaired;

wherein the controller turns on the at least one heater when the sensor senses the at least one heater is generally approximate to the surface to be repaired; and

wherein the controller turns off the at least one heater when the sensor senses the at least one heater is not generally approximate to the surface to be repaired.

46 (New): The apparatus of claim 42, further comprising a tow bar for towing a trailer-mounted compaction roller.

47 (New): An asphalt surface repair apparatus comprising:

a single vehicle road repair system having a front and a rear portion, that includes on the vehicle:

a plurality of infrared heaters mounted to the rear of the vehicle for pivoting from a raised horizontally disposed position to a lowered horizontally disposed position that is substantially approximate to a surface to be repaired;

a heating gas source disposed forward of the heaters;

a hot new asphalt source;

a rejuvenating liquid source located forward of the heaters;

a lance and reel located forward of the heaters for dispensing the rejuvenating liquid;

a storage compartment; and

a built in tank.

48 (New): The apparatus of claim 47, wherein the heating gas source is a single source of infrared heat.

49 (New): The apparatus of claim 47, wherein the plurality of infrared heaters includes a heater blanket.

50 (New): The apparatus of claim 49, wherein the heater blanket is made of an electrical resistance steel that includes chromium and aluminum.

51 (New): The apparatus of claim 50, wherein the heating blanket made of an electrical resistance steel that includes chromium and aluminum is capable of heating and cooling to an ambient temperature in less than five seconds.

52 (New): The apparatus of claim 47, further comprising:

a controller for controlling an on/off operation of the at least one heater;

a sensor for sensing the position of the at least one heater with respect to the surface to be repaired;

wherein the controller turns on the at least one heater when the sensor senses the at least one heater is generally approximate to the surface to be repaired; and

wherein the controller turns off the at least one heater when the sensor senses the at least one heater is not generally approximate to the surface to be repaired.